

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031320\
 Data File : VX015266.D
 Acq On : 13 Mar 2020 17:36
 Operator : JC/SP
 Sample : L1903-08DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D3-20200309DL

Quant Time: Mar 16 08:23:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 04 14:19:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	253682	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	400756	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	385724	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	199417	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	143198	47.58	ug/l	0.00
Spiked Amount			Recovery	=	95.16%	
35) Dibromofluoromethane	5.49	113	124728	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
50) Toluene-d8	8.71	98	489308	50.88	ug/l	0.00
Spiked Amount			Recovery	=	101.76%	
62) 4-Bromofluorobenzene	11.14	95	180067	52.49	ug/l	0.00
Spiked Amount			Recovery	=	104.98%	

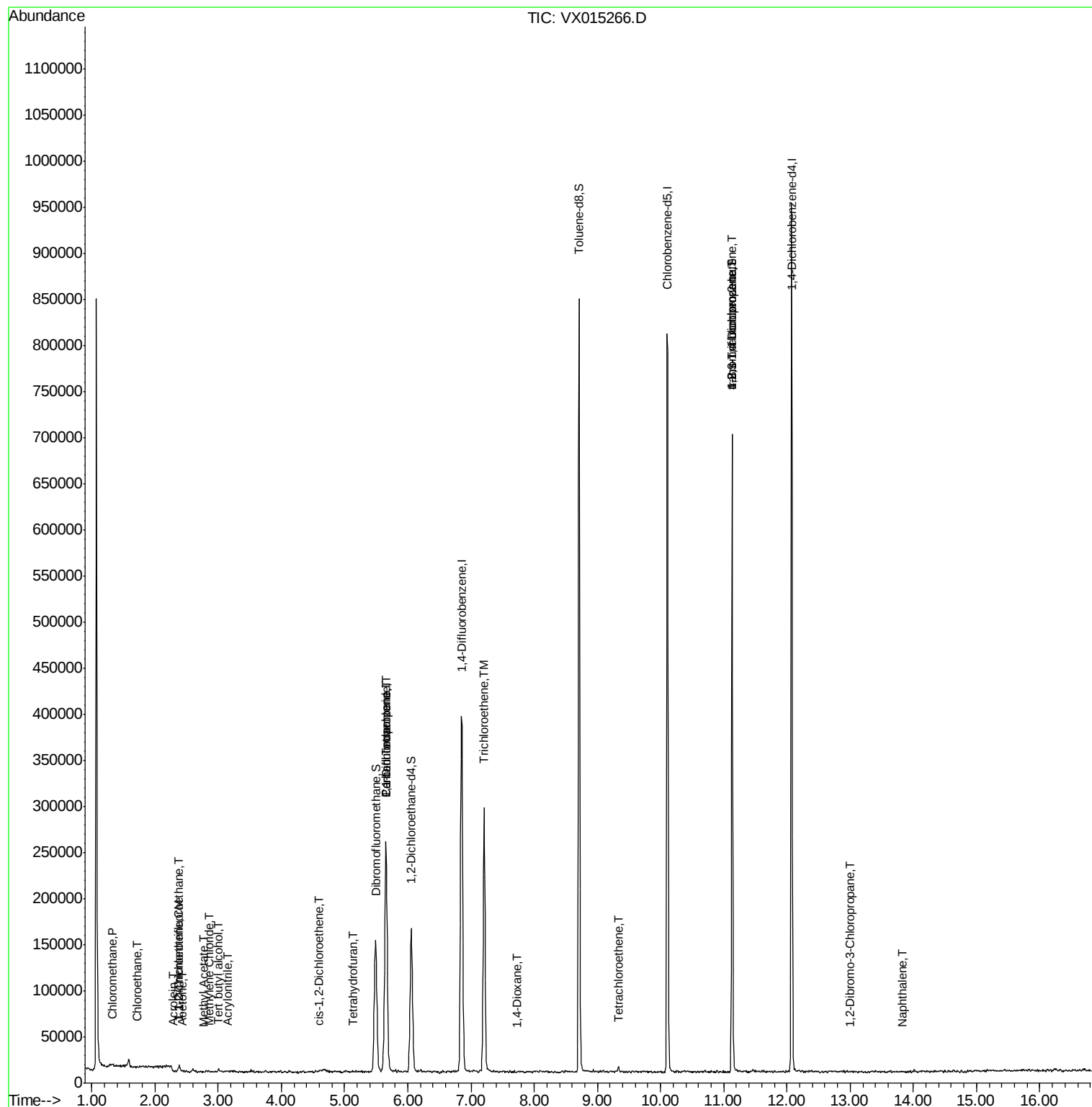
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1056	0.336	ug/l #	58
6) Chloroethane	1.72	64	559	0.292	ug/l #	42
9) 1,1,2-Trichlorotrifluoroet	2.37	101	3187	1.334	ug/l	92
11) Tert butyl alcohol	3.00	59	1551	2.970	ug/l	95
12) 1,1-Dichloroethene	2.37	96	737	0.299	ug/l	96
13) Acrolein	2.29	56	288	0.587	ug/l #	66
15) Acrylonitrile	3.14	53	342	0.263	ug/l	90
16) Acetone	2.43	43	1408	1.155	ug/l	98
18) Methyl Acetate	2.77	43	679	0.228	ug/l #	39
20) Methylene Chloride	2.86	84	637	0.223	ug/l #	63
27) cis-1,2-Dichloroethene	4.59	96	751	0.254	ug/l	32
29) Tetrahydrofuran	5.13	42	862	0.749	ug/l #	72
36) 1,1-Dichloropropene	5.65	75	16353	4.414	ug/l #	53
38) Carbon Tetrachloride	5.65	117	22525	6.441	ug/l #	17
44) Trichloroethene	7.21	130	114422	37.379	ug/l	96
49) 1,4-Dioxane	7.73	88	92	1.383	ug/l #	23
64) Tetrachloroethene	9.33	164	1137	0.357	ug/l #	84
76) 1,2,3-Trichloropropane	11.13	75	87423	21.978	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	87423	62.374	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.99	75	219	0.258	ug/l #	7
95) Naphthalene	13.82	128	422	1.451	ug/l #	31

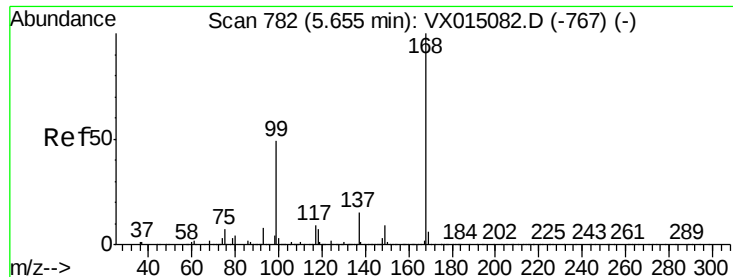
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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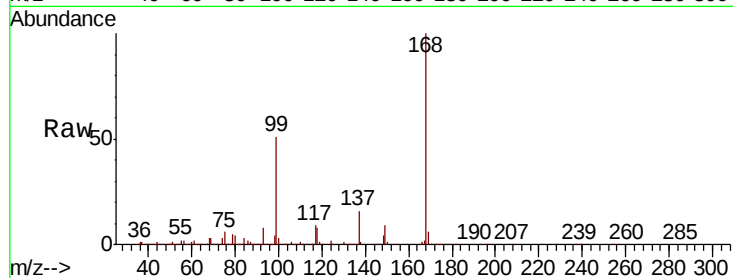


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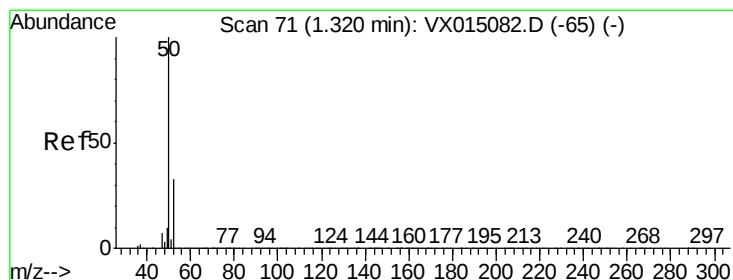
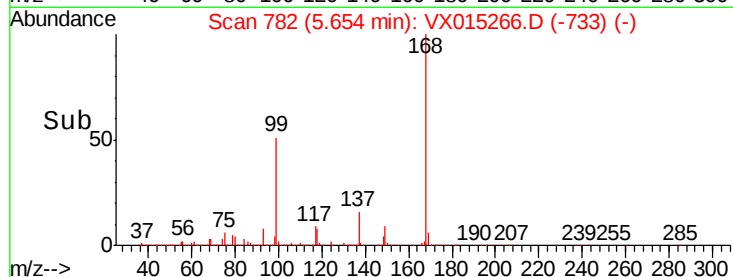
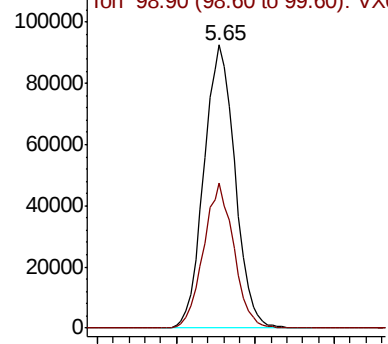
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.00 min
Lab File: VX015266.D
Acq: 13 Mar 2020 17:36

Instrument :
MSVOA_X
ClientSampleId :
RE120D3-20200309DL

Tot Ion:168 Resp: 253682
Ion Ratio Lower Upper
168 100
99 51.0 39.4 59.2



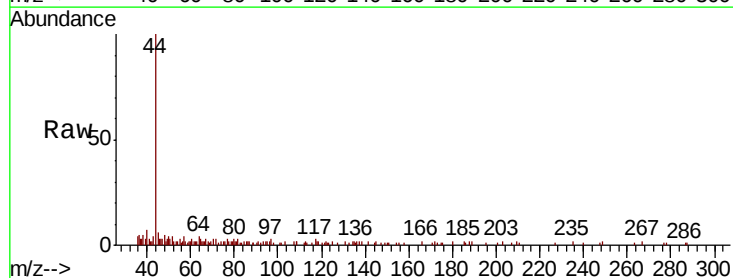
Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VX0



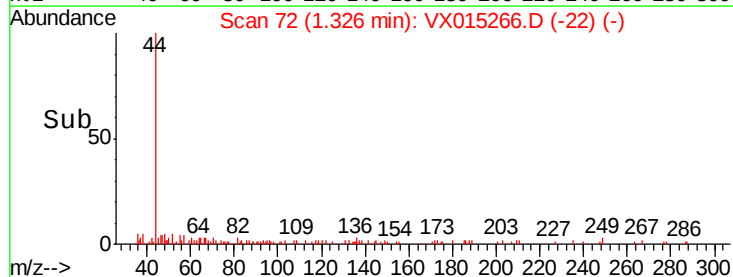
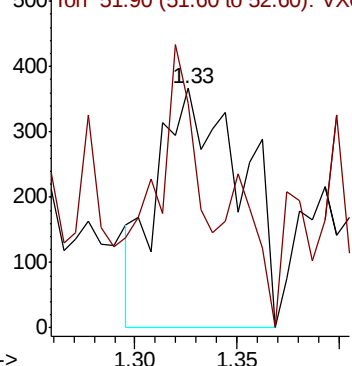
#3

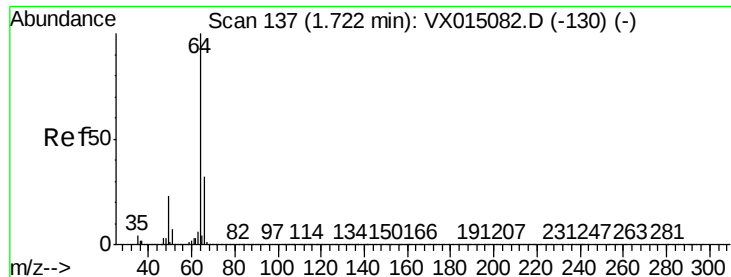
Chloromethane
Concen: 0.336 ug/l
RT: 1.33 min Scan# 72
Delta R.T. 0.01 min
Lab File: VX015266.D
Acq: 13 Mar 2020 17:36

Tgt Ion: 50 Resp: 1056
Ion Ratio Lower Upper
50 100
52 56.1 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0
Ion 51.90 (51.60 to 52.60): VX0





#6

Chloroethane

Concen: 0.292 ug/l

RT: 1.72 min Scan# 136

Delta R.T. -0.01 min

Lab File: VX015266.D

Acq: 13 Mar 2020 17:36

Instrument :

MSVOA_X

ClientSampleId :

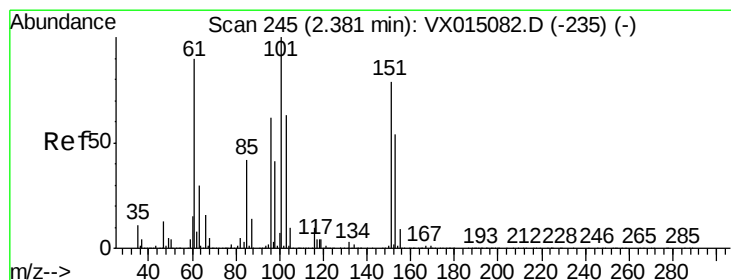
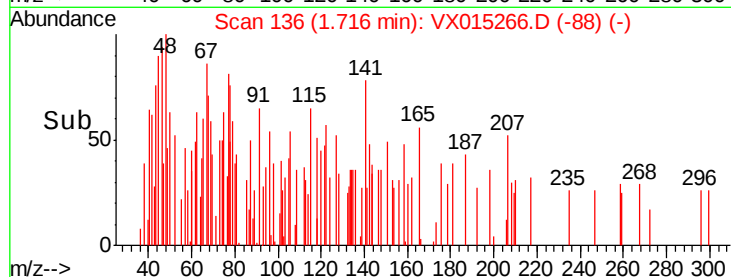
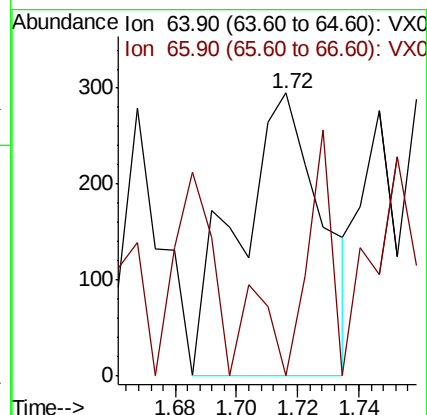
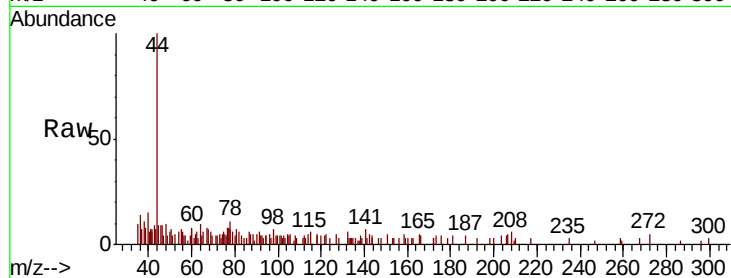
RE120D3-20200309DL

Tot Ion: 64 Resp: 559

Ion Ratio Lower Upper

64 100

66 0.0 25.8 38.8#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.334 ug/l

RT: 2.37 min Scan# 244

Delta R.T. -0.01 min

Lab File: VX015266.D

Acq: 13 Mar 2020 17:36

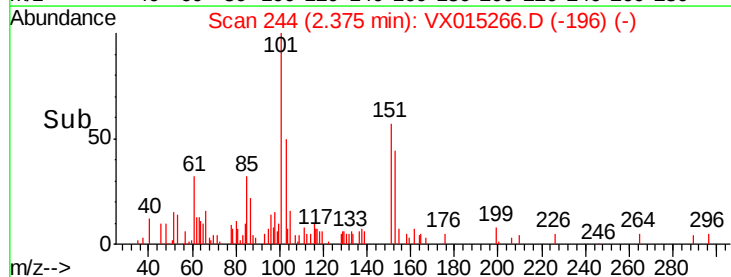
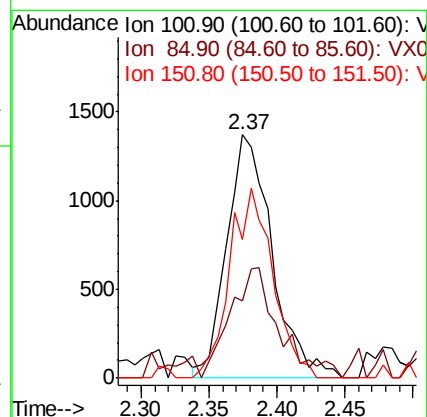
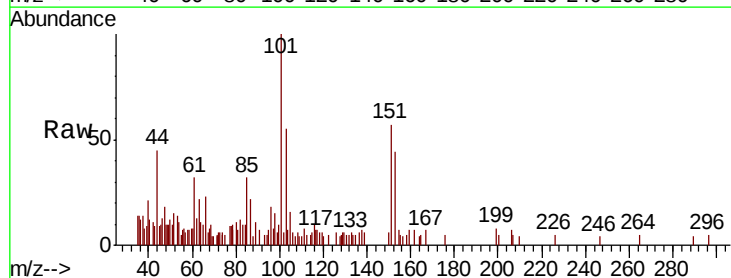
Tgt Ion: 101 Resp: 3187

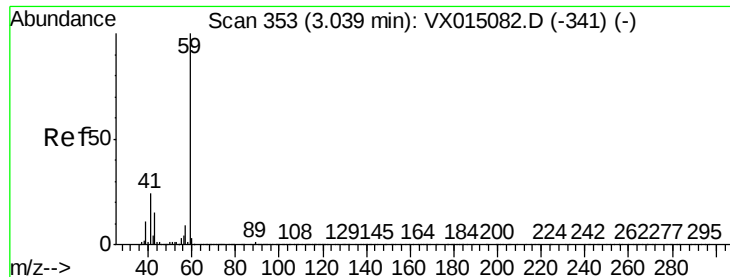
Ion Ratio Lower Upper

101 100

85 49.0 33.7 50.5

151 74.0 64.0 96.0

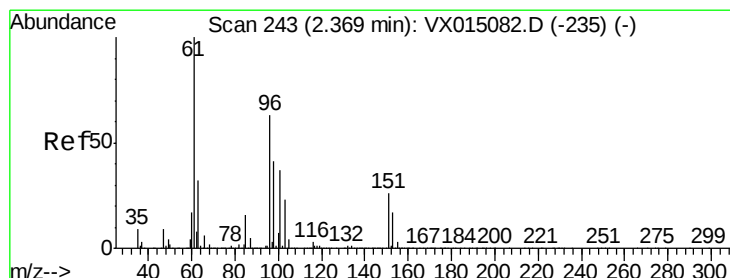
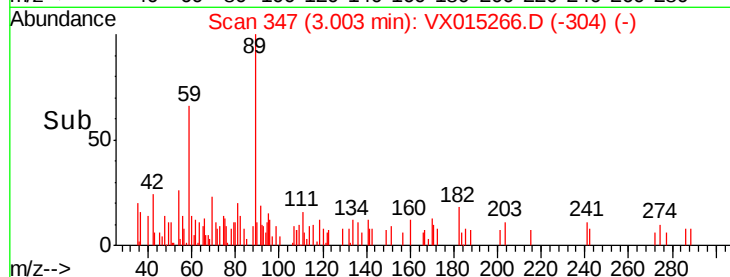
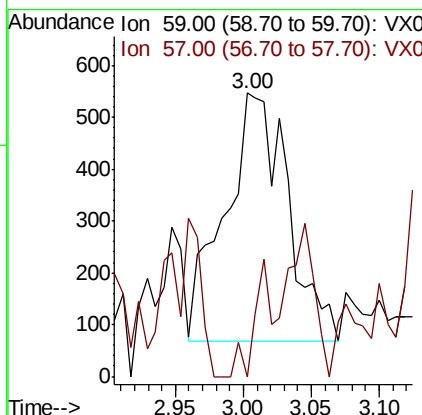
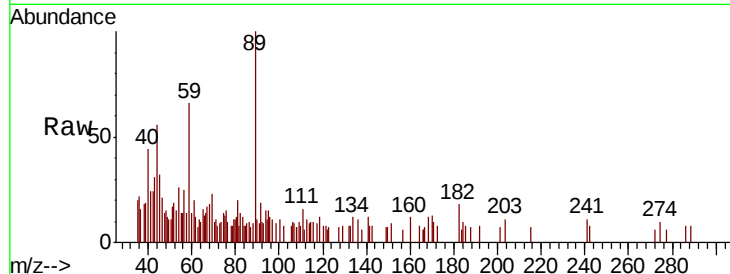




#11
Tert butyl alcohol
Concen: 2.970 ug/l
RT: 3.00 min Scan# 347
Delta R.T. -0.04 min
Lab File: VX015266.D
Acq: 13 Mar 2020 17:36

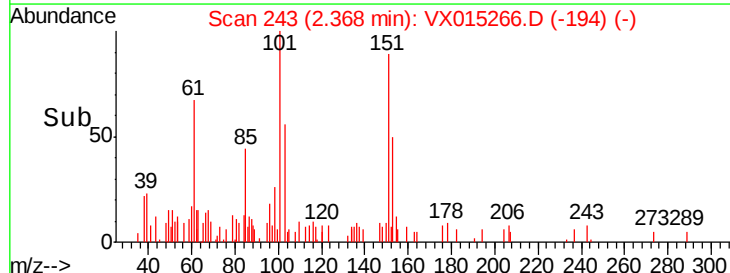
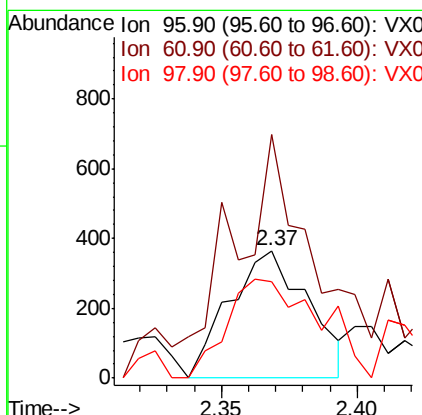
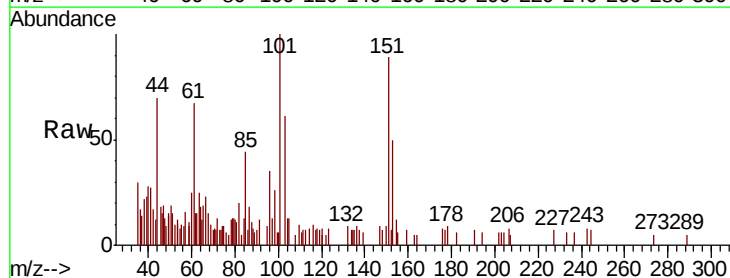
Instrument :
MSVOA_X
ClientSampleId :
RE120D3-20200309DL

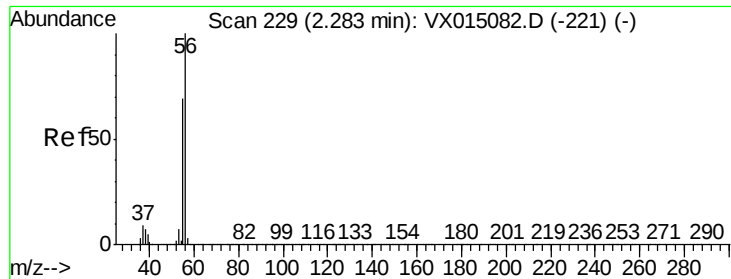
Tot Ion: 59 Resp: 1551
Ion Ratio Lower Upper
59 100
57 12.1 8.2 12.4



#12
1,1-Dichloroethene
Concen: 0.299 ug/l
RT: 2.37 min Scan# 243
Delta R.T. -0.00 min
Lab File: VX015266.D
Acq: 13 Mar 2020 17:36

Tgt Ion: 96 Resp: 737
Ion Ratio Lower Upper
96 100
61 158.2 126.2 189.4
98 75.7 51.4 77.0





#13

Acrolein

Concen: 0.587 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX015266.D

Acq: 13 Mar 2020 17:36

Instrument :

MSVOA_X

ClientSampleId :

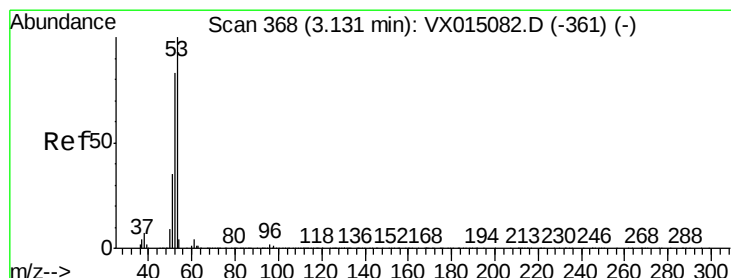
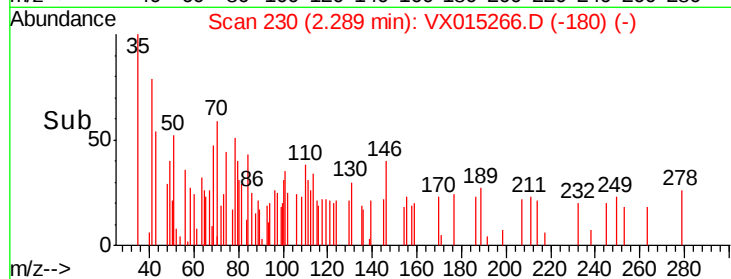
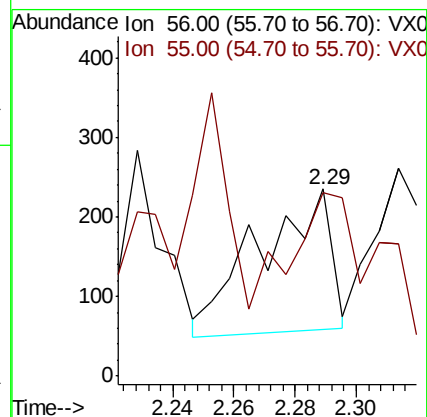
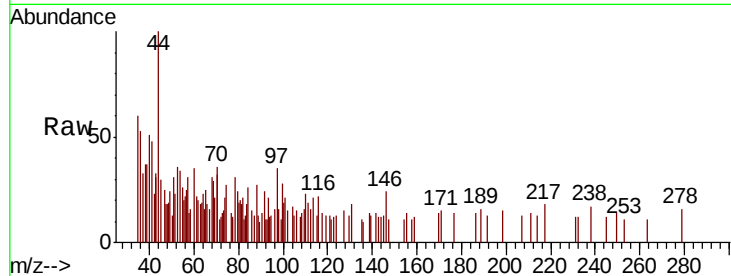
RE120D3-20200309DL

Tot Ion: 56 Resp: 288

Ion Ratio Lower Upper

56 100

55 96.9 55.4 83.0#



#15

Acrylonitrile

Concen: 0.263 ug/l

RT: 3.14 min Scan# 370

Delta R.T. 0.01 min

Lab File: VX015266.D

Acq: 13 Mar 2020 17:36

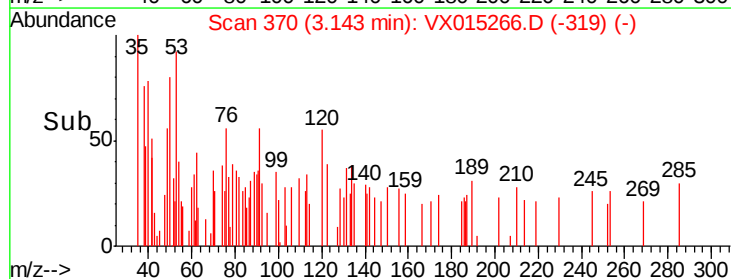
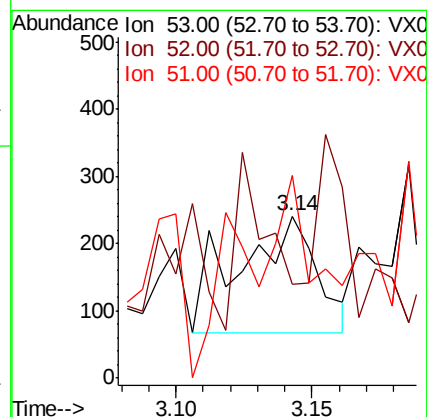
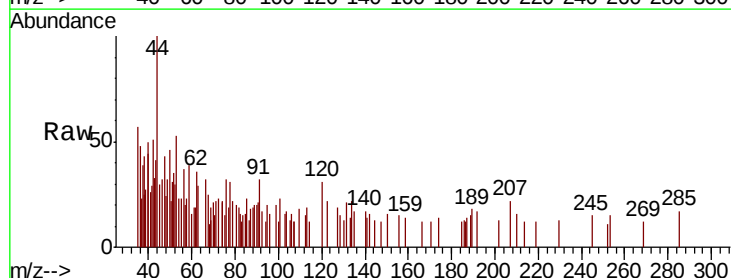
Tgt Ion: 53 Resp: 342

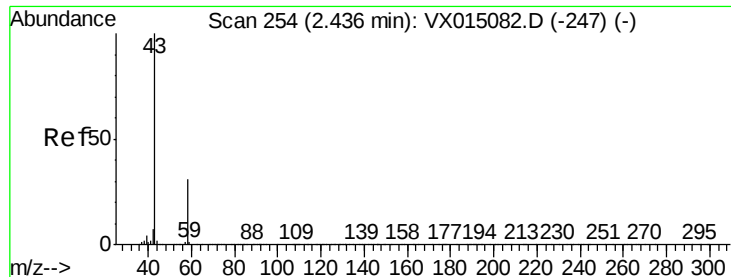
Ion Ratio Lower Upper

53 100

52 95.0 66.6 100.0

51 34.2 29.0 43.6





#16

Acetone

Concen: 1.155 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX015266.D

Acq: 13 Mar 2020 17:36

Instrument :

MSVOA_X

ClientSampleId :

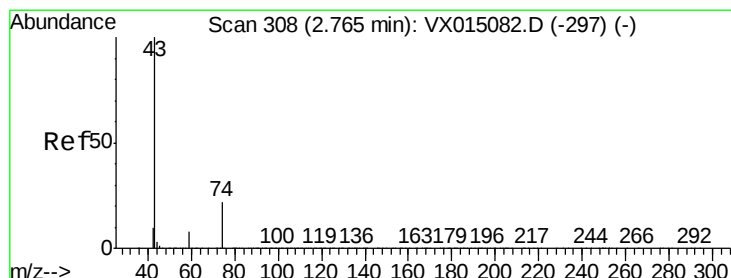
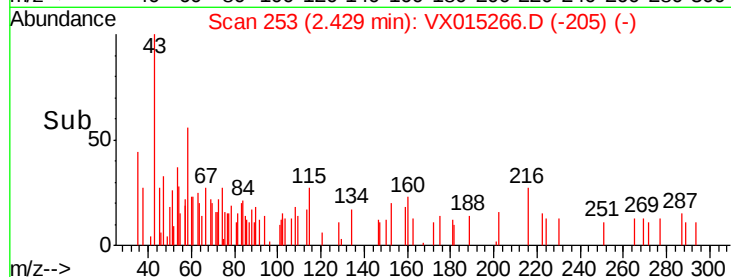
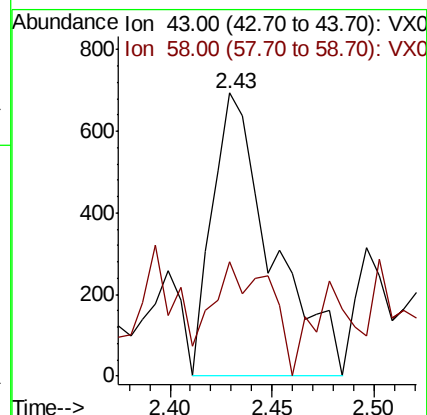
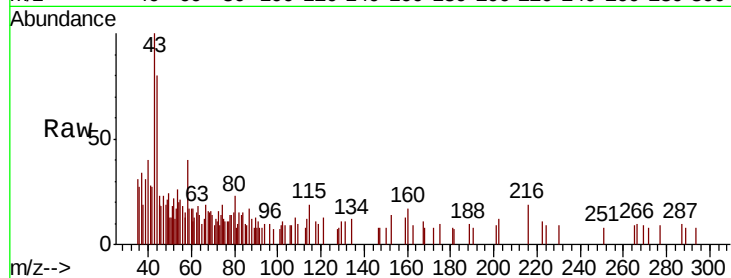
RE120D3-20200309DL

Tot Ion: 43 Resp: 1408

Ion Ratio Lower Upper

43 100

58 29.7 24.8 37.2



#18

Methyl Acetate

Concen: 0.228 ug/l

RT: 2.77 min Scan# 309

Delta R.T. 0.01 min

Lab File: VX015266.D

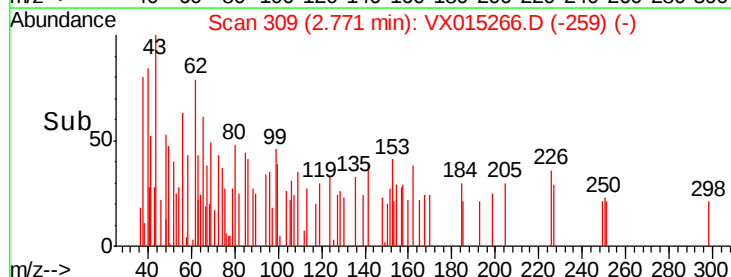
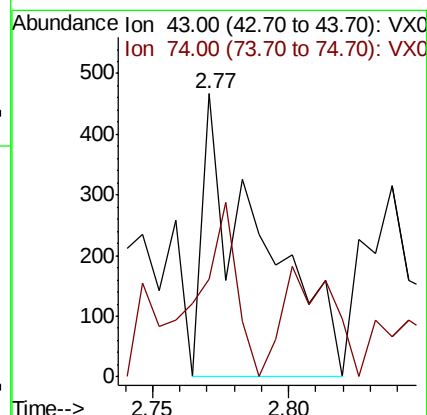
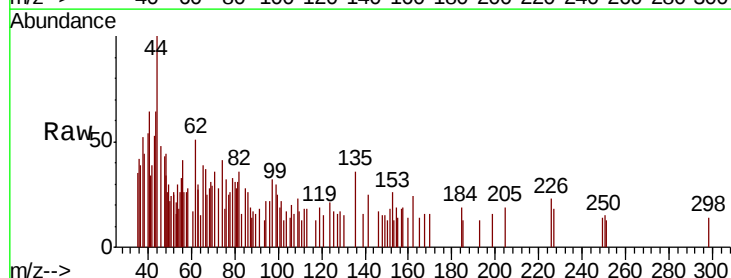
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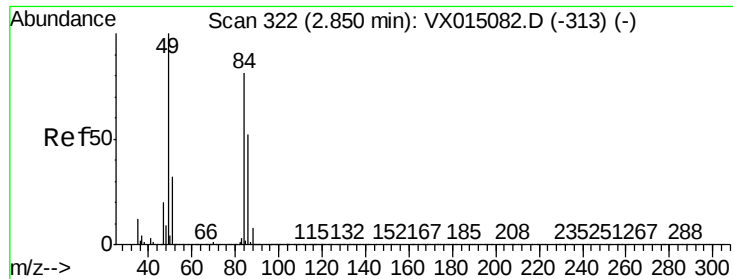
Tgt Ion: 43 Resp: 679

Ion Ratio Lower Upper

43 100

74 53.5 18.8 28.2#

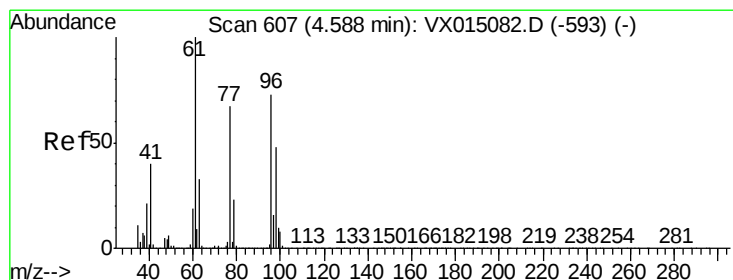
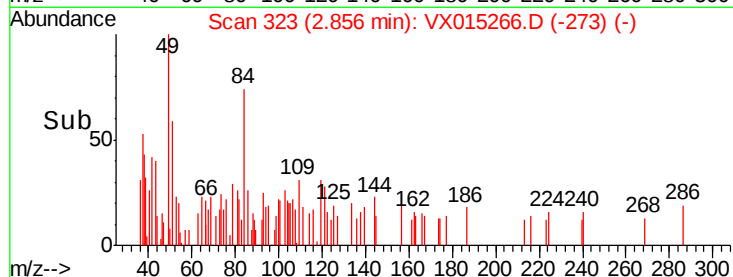
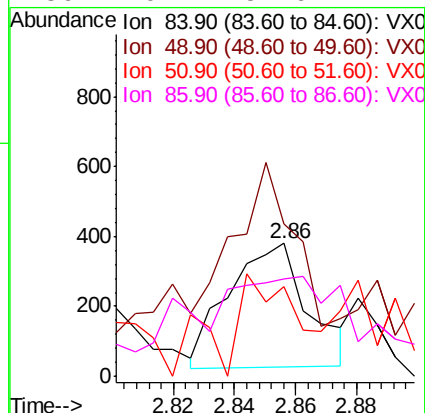
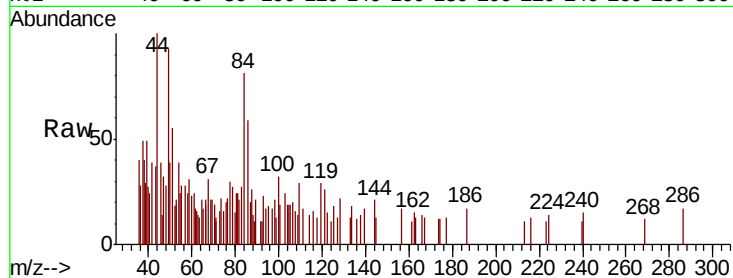




#20
Methvlene Chloride
Concen: 0.223 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX015266.D
Acq: 13 Mar 2020 17:36

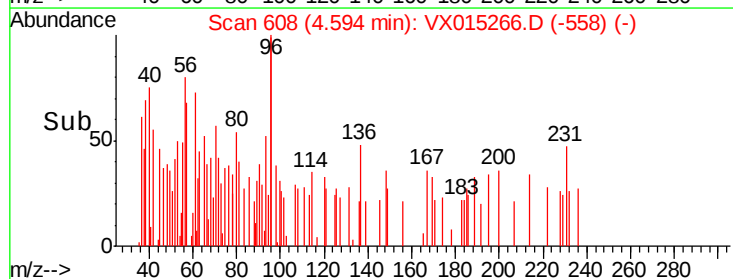
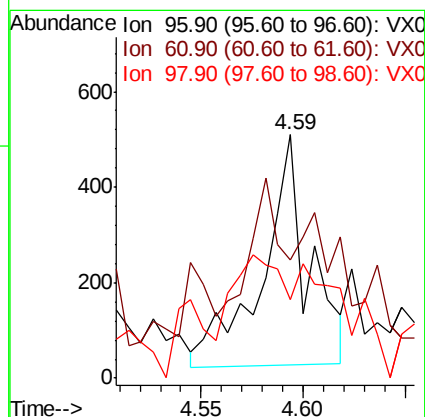
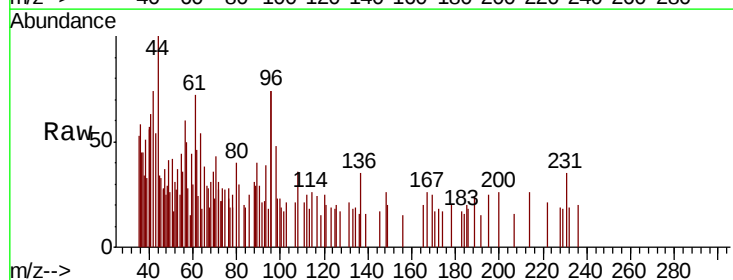
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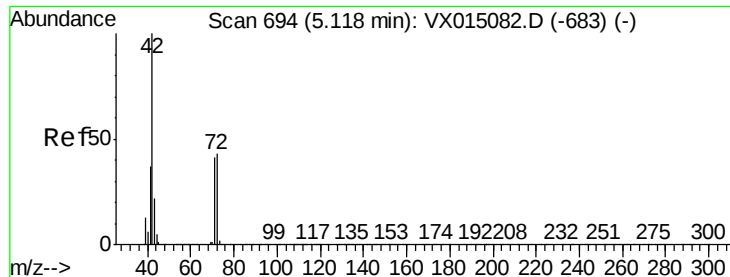
Tot Ion: 84 Resp: 637
Ion Ratio Lower Upper
84 100
49 82.6 99.4 149.2#
51 24.8 31.5 47.3#
86 29.1 51.6 77.4#



#27
cis-1,2-Dichloroethene
Concen: 0.254 ug/l
RT: 4.59 min Scan# 608
Delta R.T. 0.01 min
Lab File: VX015266.D
Acq: 13 Mar 2020 17:36

Tgt Ion: 96 Resp: 751
Ion Ratio Lower Upper
96 100
61 39.1 0.0 286.8
98 39.1 0.0 128.4





#29

Tetrahydrofuran

Concen: 0.749 ug/l

RT: 5.13 min Scan# 696

Delta R.T. 0.01 min

Lab File: VX015266.D

Acq: 13 Mar 2020 17:36

Instrument :

MSVOA_X

ClientSampleId :

RE120D3-20200309DL

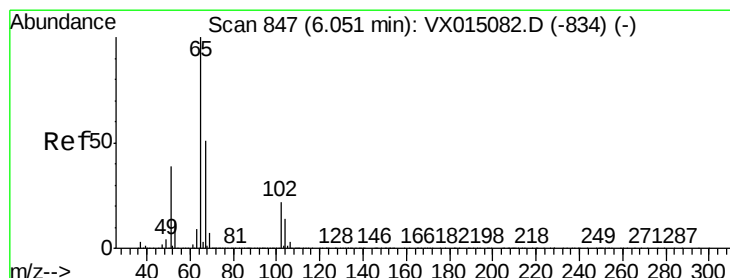
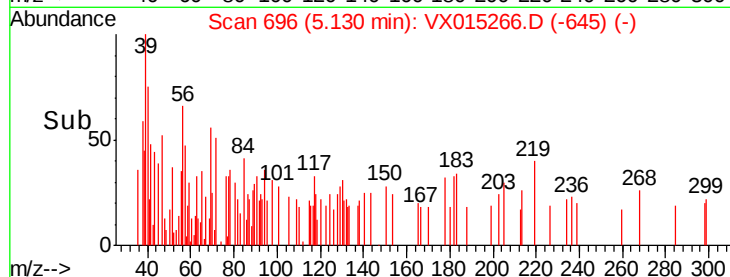
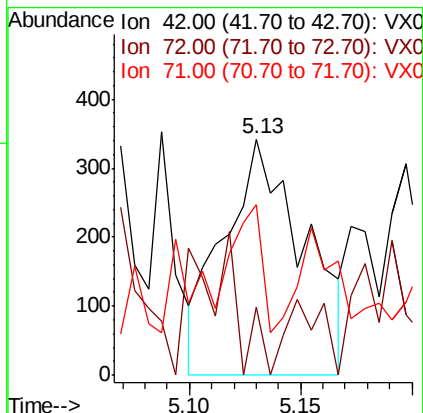
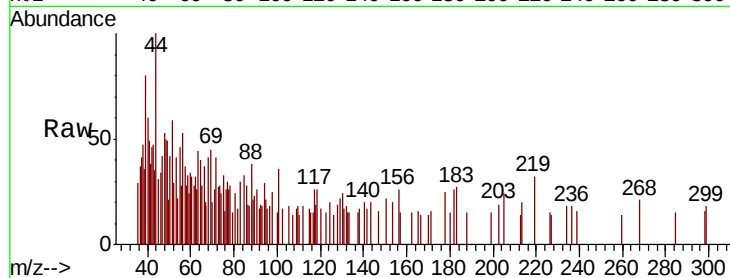
Tot Ion: 42 Resp: 862

Ion Ratio Lower Upper

42 100

72 30.5 36.4 54.6#

71 20.3 33.3 49.9#



#33

1,2-Dichloroethane-d4

Concen: 47.580 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX015266.D

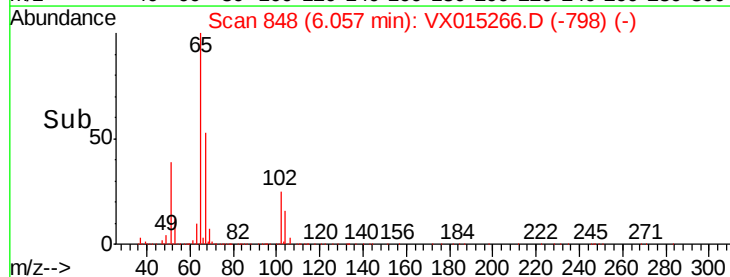
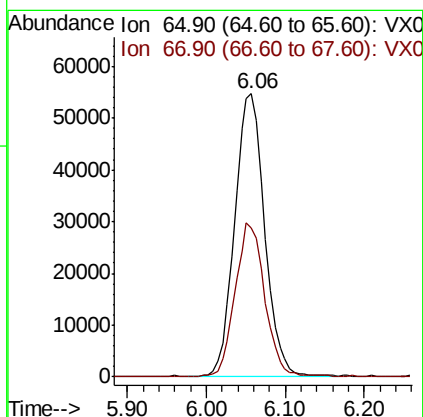
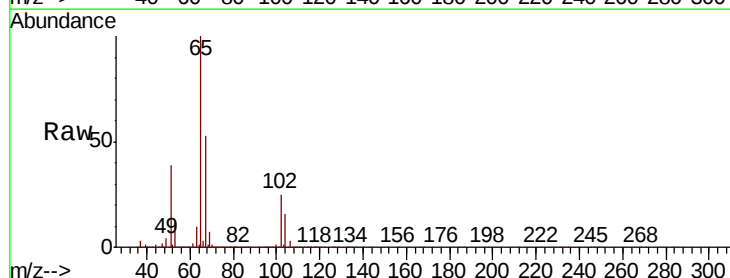
Acq: 13 Mar 2020 17:36

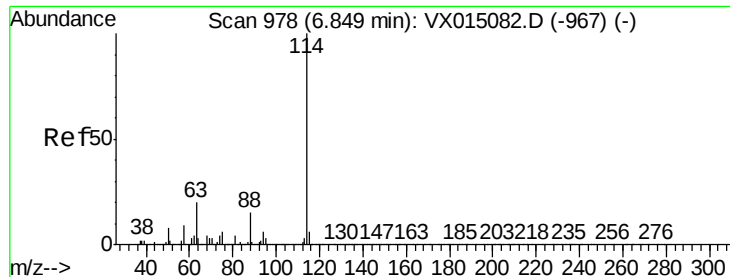
Tgt Ion: 65 Resp: 143198

Ion Ratio Lower Upper

65 100

67 54.5 0.0 105.6

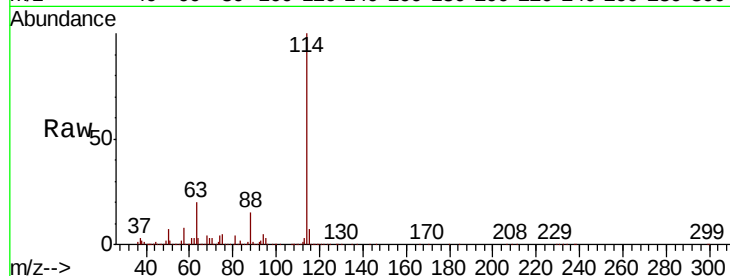




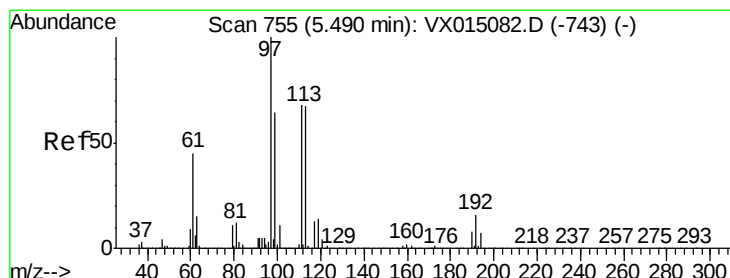
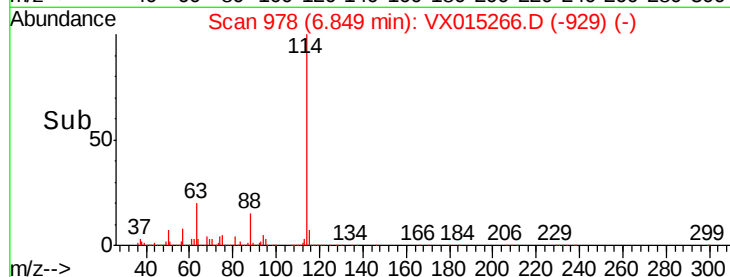
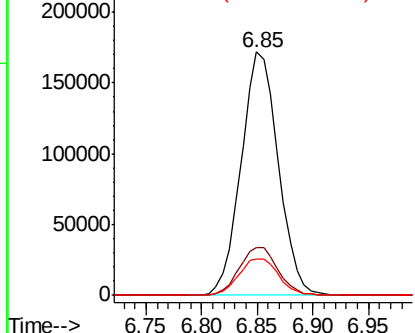
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. -0.00 min
Lab File: VX015266.D
Acq: 13 Mar 2020 17:36

Instrument :
MSVOA_X
ClientSampleId :
RE120D3-20200309DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.5	0.0	40.0
88	15.0	0.0	30.6

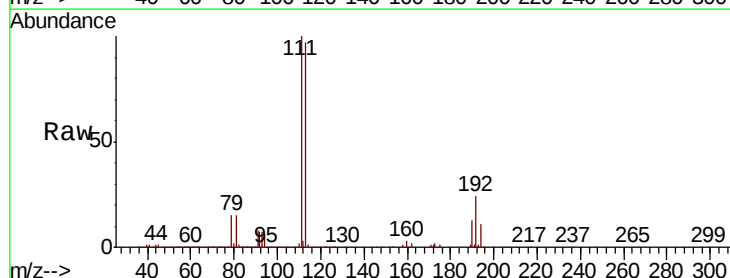


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

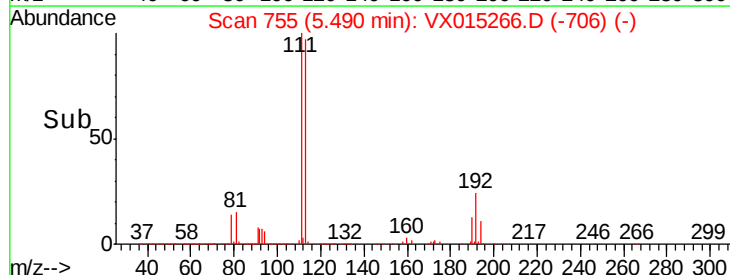
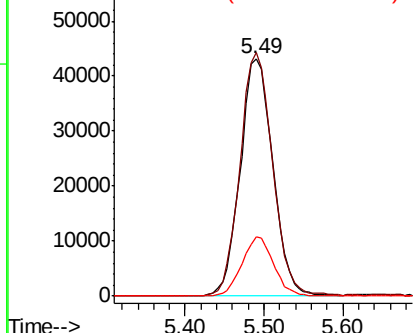


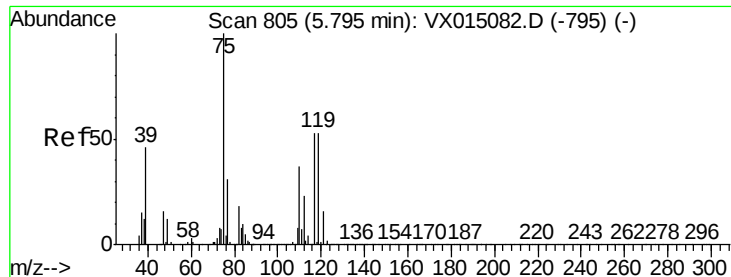
#35
Dibromofluoromethane
Concen: 49.334 ug/l
RT: 5.49 min Scan# 755
Delta R.T. -0.00 min
Lab File: VX015266.D
Acq: 13 Mar 2020 17:36

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.4	82.6	123.8
192	24.2	18.6	28.0



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.414 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.15 min

Lab File: VX015266.D

Acq: 13 Mar 2020 17:36

Instrument :

MSVOA_X

ClientSampleId :

RE120D3-20200309DL

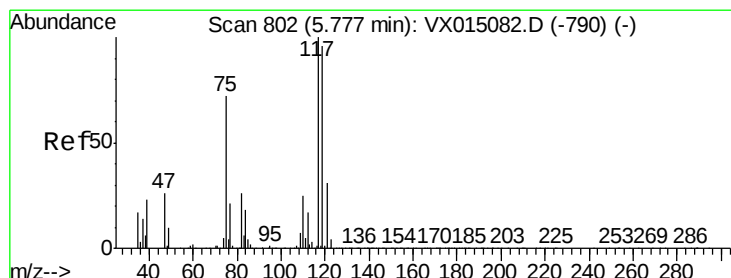
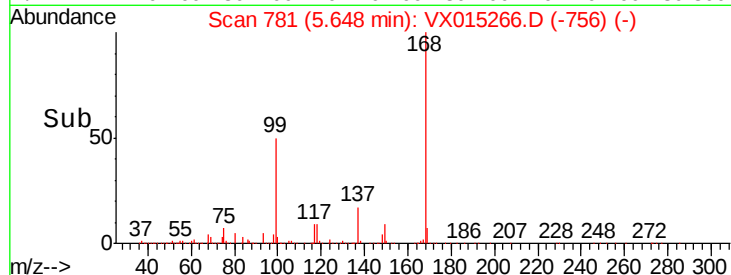
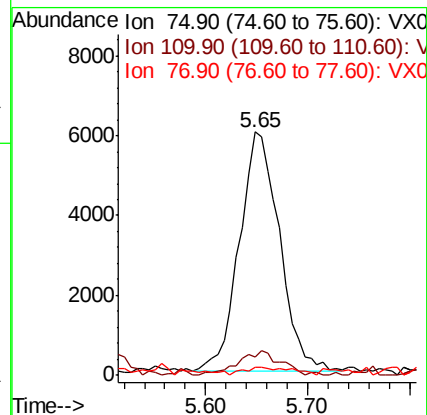
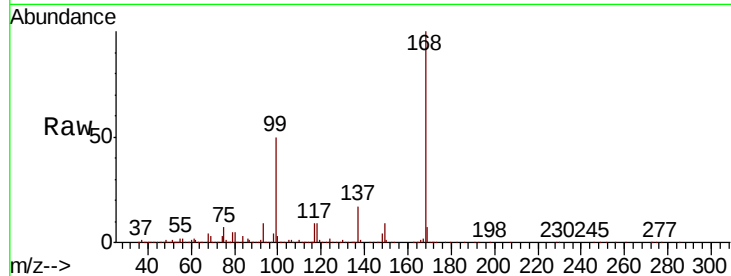
Tot Ion: 75 Resp: 16353

Ion Ratio Lower Upper

75 100

110 10.7 17.9 53.8#

77 2.3 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 6.441 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX015266.D

Acq: 13 Mar 2020 17:36

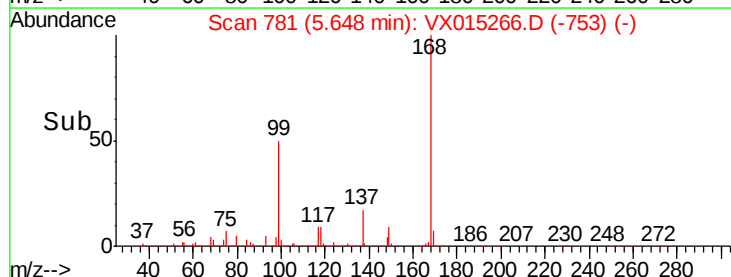
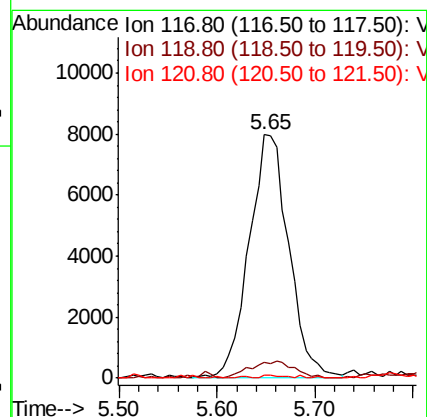
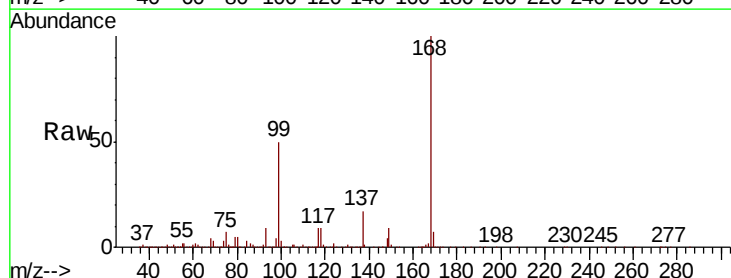
Tgt Ion: 117 Resp: 22525

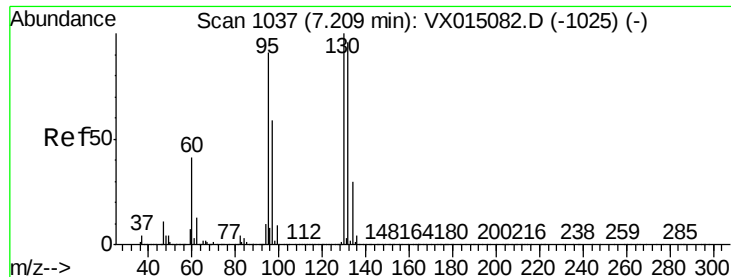
Ion Ratio Lower Upper

117 100

119 5.7 76.9 115.3#

121 1.0 24.6 37.0#





#44

Trichloroethene

Concen: 37.379 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VX015266.D

Acq: 13 Mar 2020 17:36

Instrument :

MSVOA_X

ClientSampleId :

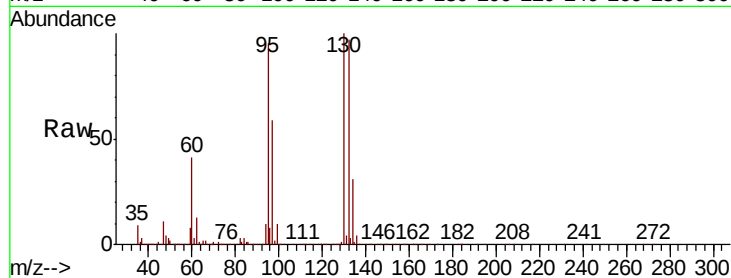
RE120D3-20200309DL

Tot Ion:130 Resp: 114422

Ion Ratio Lower Upper

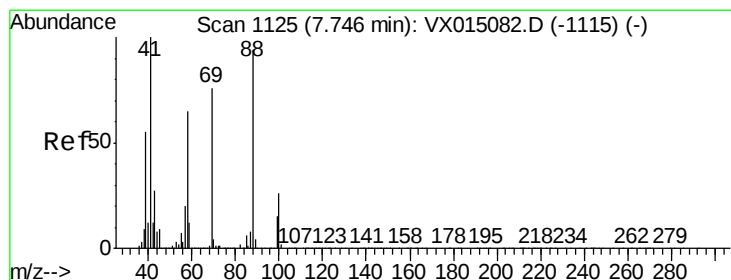
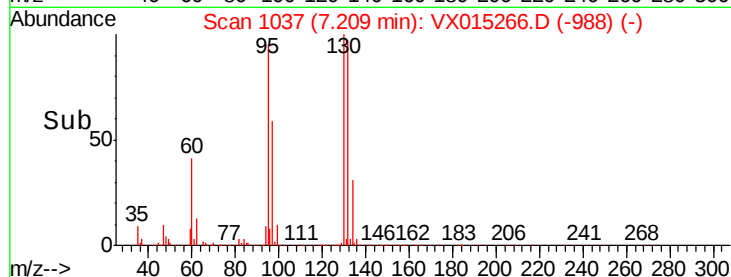
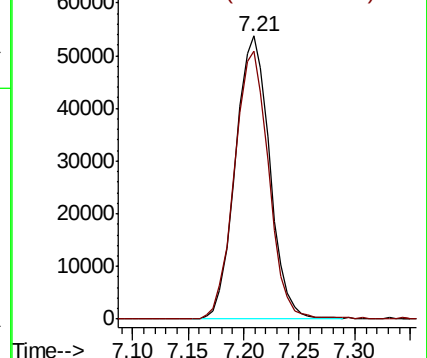
130 100

95 94.8 0.0 181.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 1.383 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. -0.01 min

Lab File: VX015266.D

Acq: 13 Mar 2020 17:36

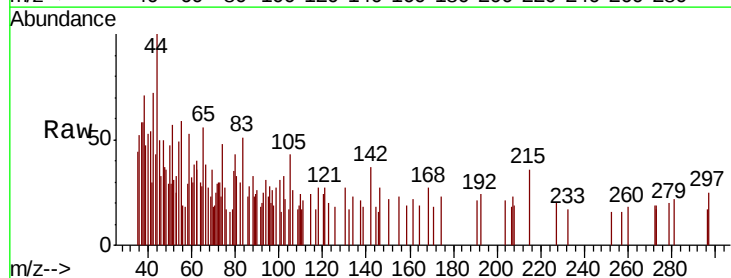
Tgt Ion: 88 Resp: 92

Ion Ratio Lower Upper

88 100

43 0.0 27.0 40.4#

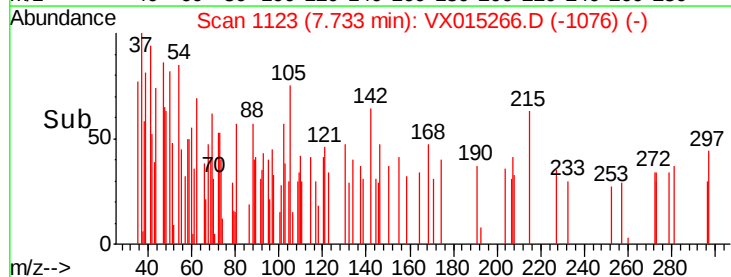
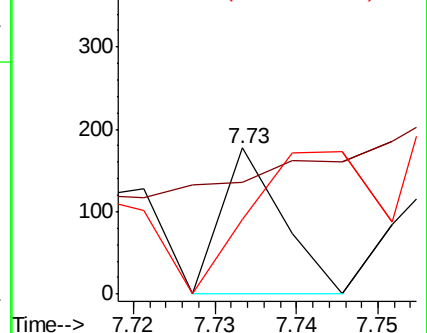
58 0.0 55.6 83.4#

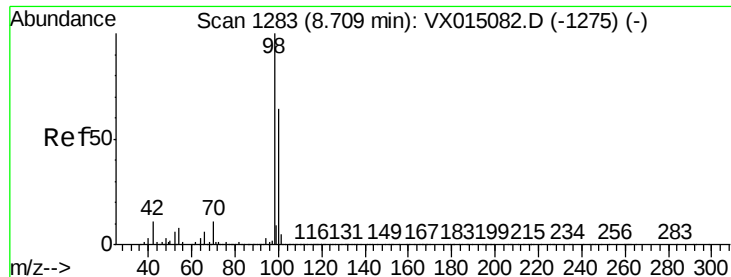


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.879 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX015266.D

Acq: 13 Mar 2020 17:36

Instrument :

MSVOA_X

ClientSampleId :

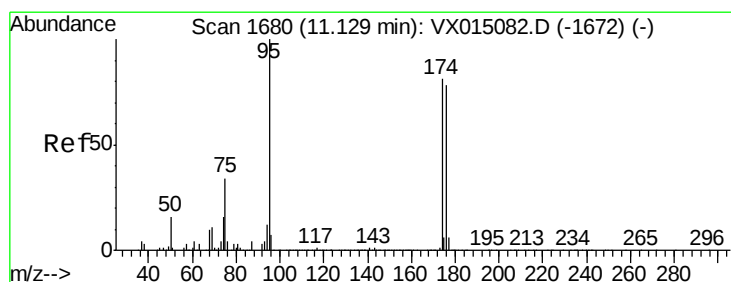
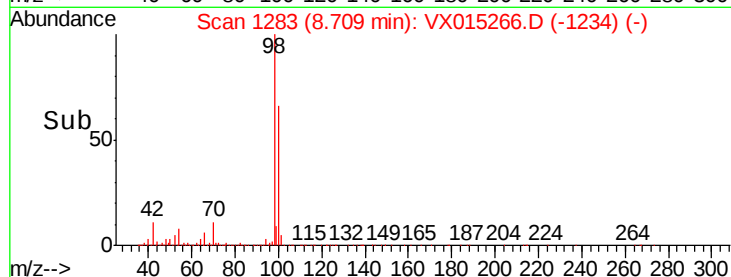
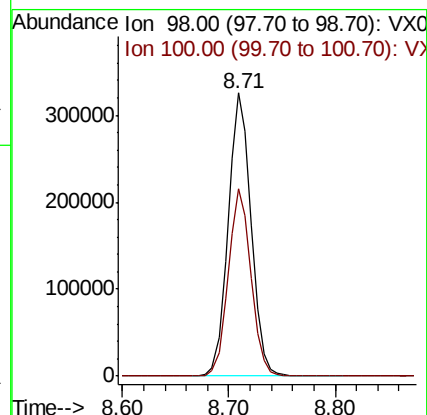
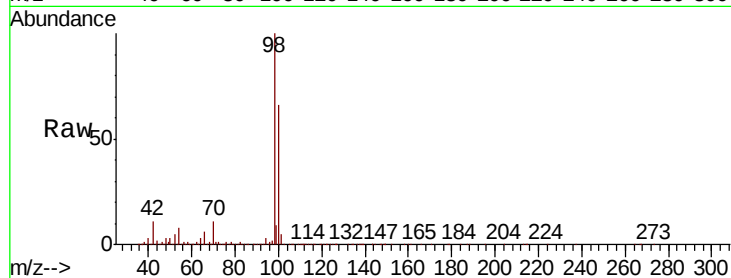
RE120D3-20200309DL

Tot Ion: 98 Resp: 489308

Ion Ratio Lower Upper

98 100

100 65.9 52.4 78.6



#62

4-Bromofluorobenzene

Concen: 52.493 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX015266.D

Acq: 13 Mar 2020 17:36

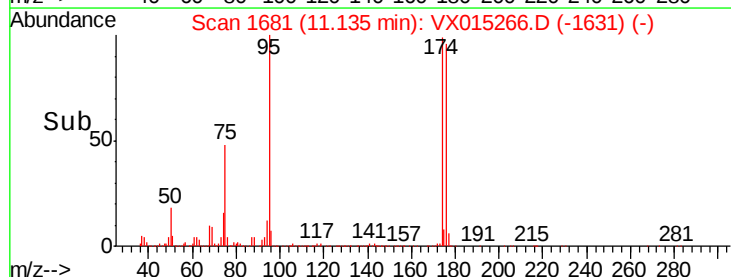
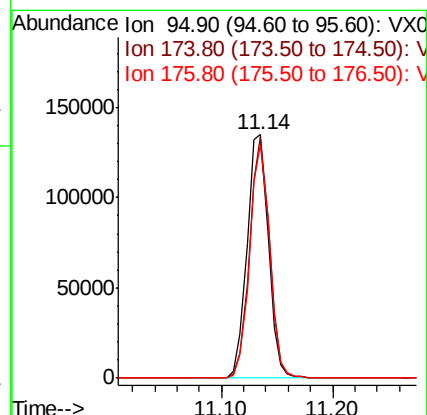
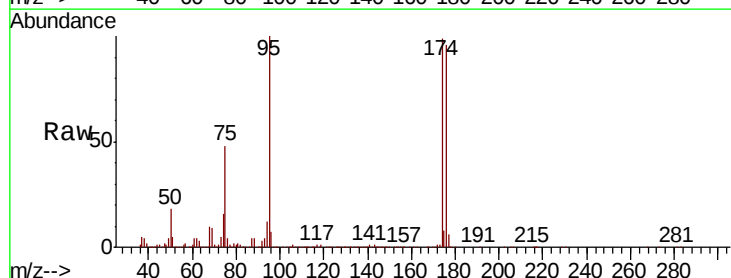
Tgt Ion: 95 Resp: 180067

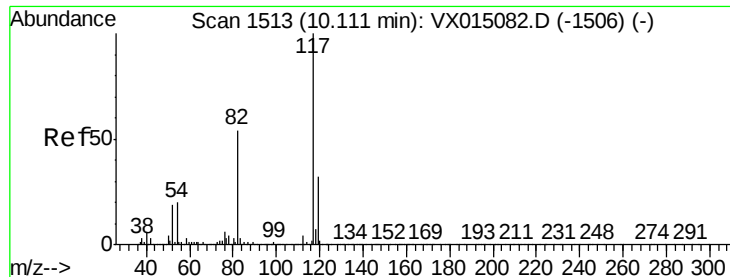
Ion Ratio Lower Upper

95 100

174 92.2 0.0 177.6

176 89.7 0.0 170.2

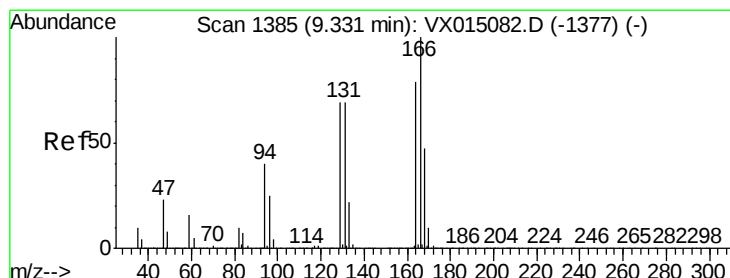
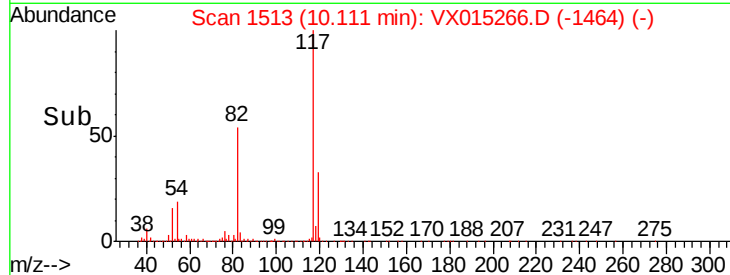
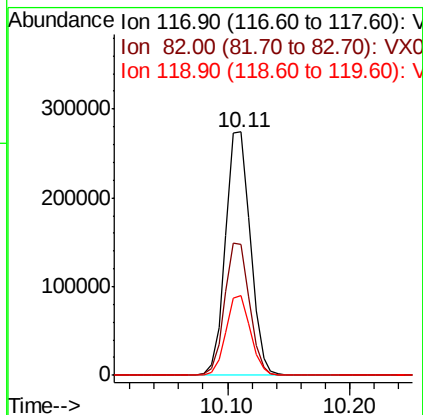
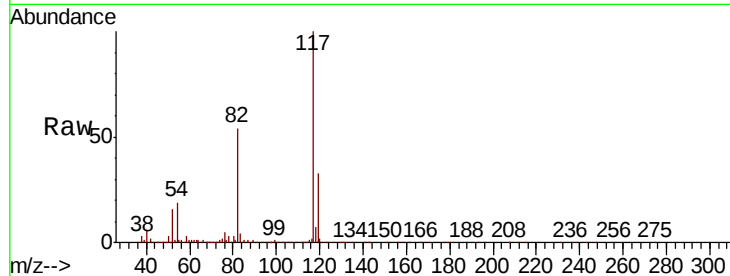




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX015266.D
Acq: 13 Mar 2020 17:36

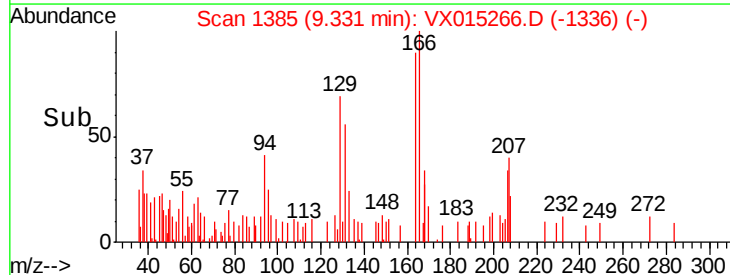
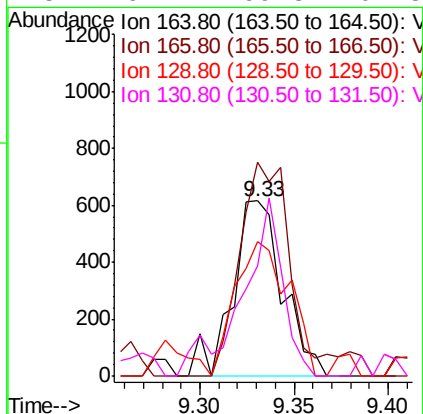
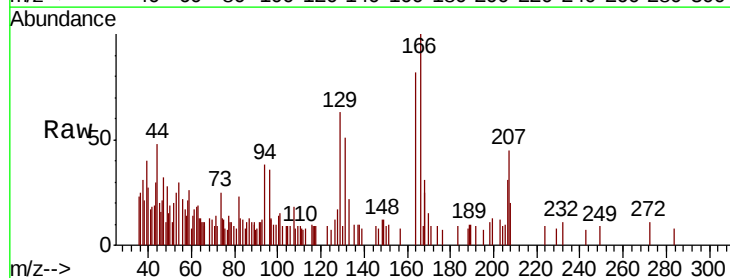
Instrument :
MSVOA_X
ClientSampleId :
RE120D3-20200309DL

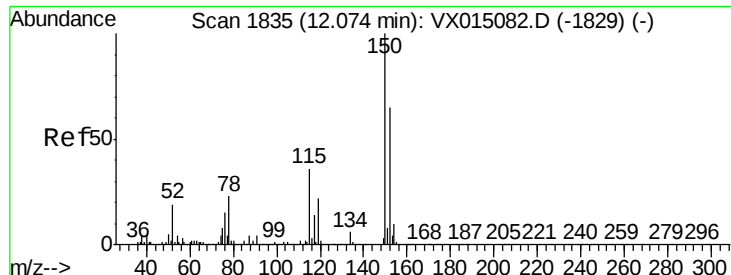
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.6	43.3	64.9
119	32.6	25.8	38.8



#64
Tetrachloroethene
Concen: 0.357 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX015266.D
Acq: 13 Mar 2020 17:36

Tgt Ion	Ratio	Lower	Upper
164	100		
166	121.9	101.1	151.7
129	66.9	69.4	104.0#
131	62.7	69.8	104.8#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX015266.D

Acq: 13 Mar 2020 17:36

Instrument :

MSVOA_X

ClientSampleId :

RE120D3-20200309DL

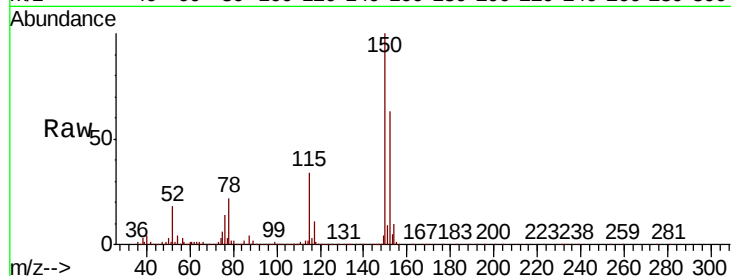
Tot Ion:152 Resp: 199417

Ion Ratio Lower Upper

152 100

115 55.2 38.2 114.6

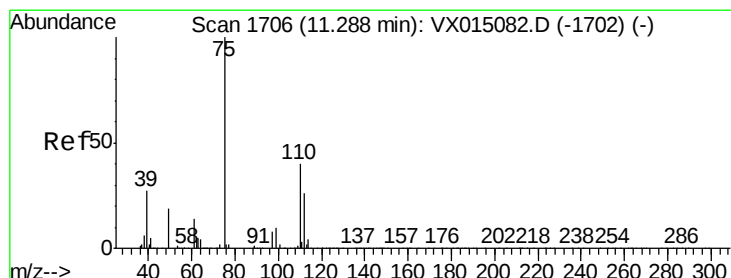
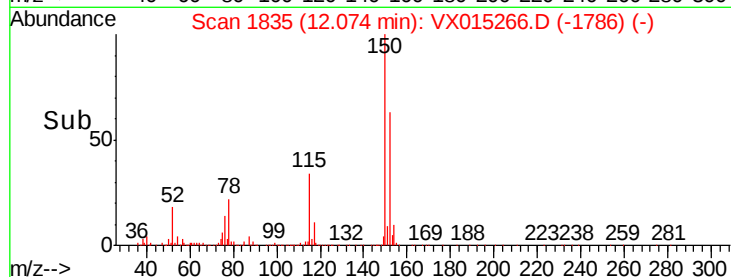
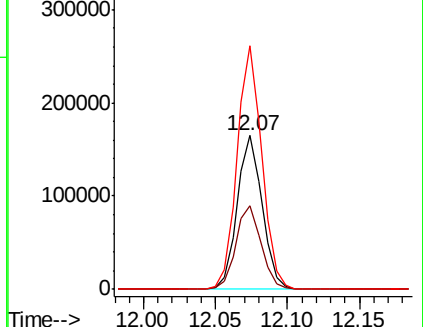
150 157.2 0.0 343.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 21.978 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX015266.D

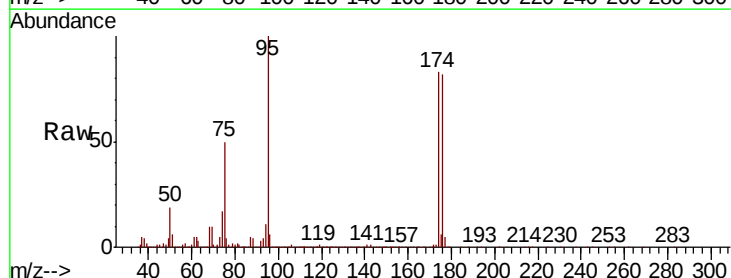
Acq: 13 Mar 2020 17:36

Tgt Ion: 75 Resp: 87423

Ion Ratio Lower Upper

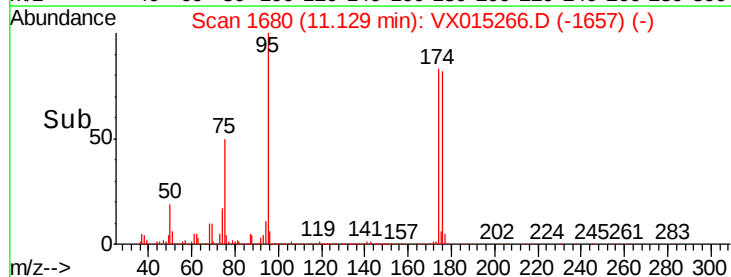
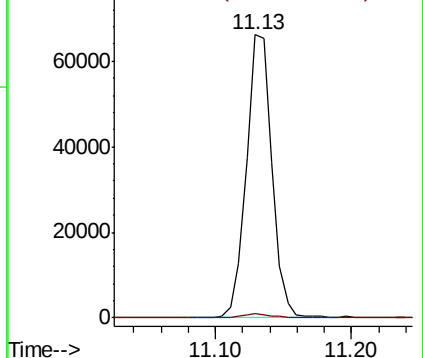
75 100

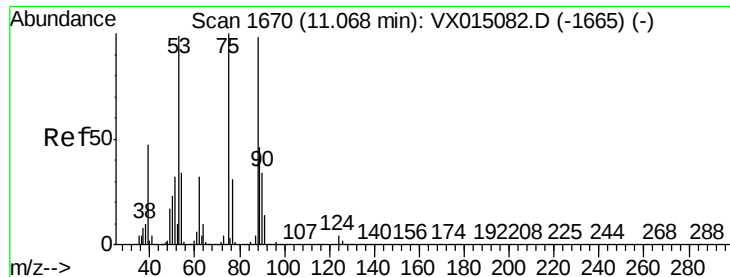
77 1.9 22.6 67.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

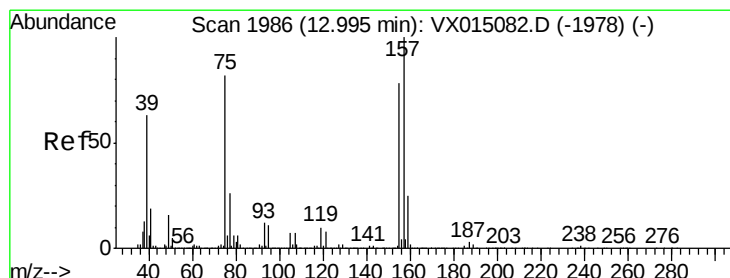
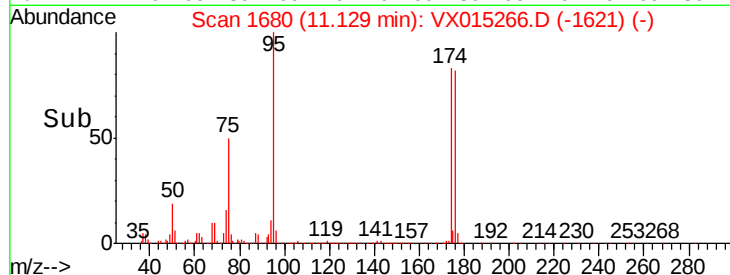
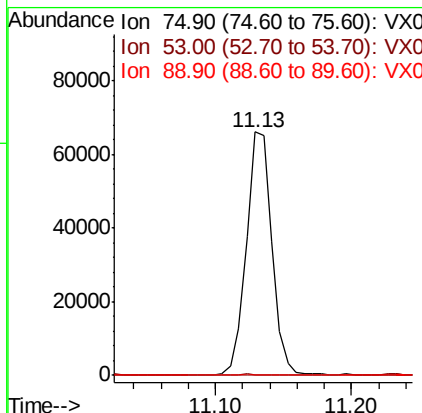
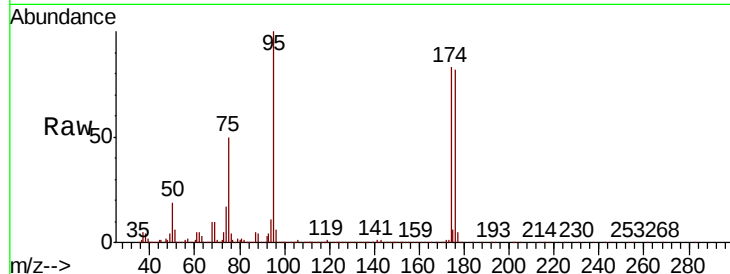




#81
trans-1,4-Dichloro-2-butene
Concen: 62.374 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX015266.D
Acq: 13 Mar 2020 17:36

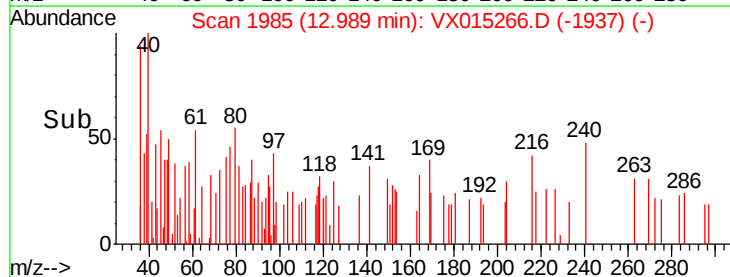
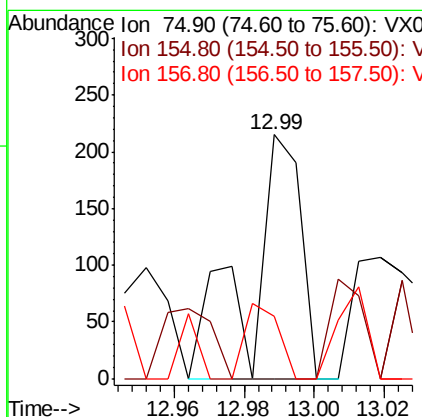
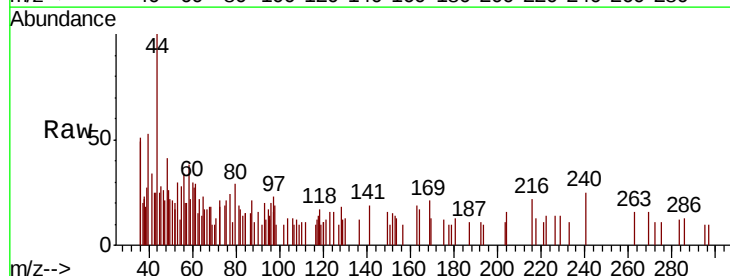
Instrument :
MSVOA_X
ClientSampleId :
RE120D3-20200309DL

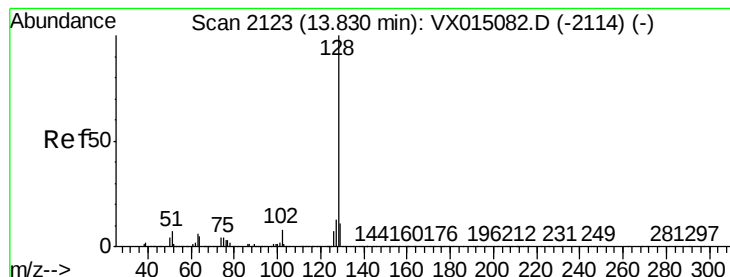
Tot Ion: 75 Resp: 87423
Ion Ratio Lower Upper
75 100
53 0.3 77.9 116.9#
89 0.0 36.2 54.2#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.258 ug/l
RT: 12.99 min Scan# 1985
Delta R.T. -0.01 min
Lab File: VX015266.D
Acq: 13 Mar 2020 17:36

Tgt Ion: 75 Resp: 219
Ion Ratio Lower Upper
75 100
155 0.0 46.6 139.7#
157 20.1 59.2 177.5#





#95
Naphthalene
Concen: 1.451 ug/l
RT: 13.82 min Scan# 2122
Delta R.T. -0.01 min
Lab File: VX015266.D
Acq: 13 Mar 2020 17:36

Instrument :
MSVOA_X
ClientSampleId :
RE120D3-20200309DL

Tot Ion:128 Resp: 422
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 53.6 8.6 13.0#

